



RECTIFIER PSS18

In: 230VAC

Out: 24/48/60/110/220Vpc (max. 1.8kW)

KEY FEATURES

- Single-phase module 1/3 x 19", 6U
 with sinusoidal input current
- · "Hot plug-in" capability
- · CAN-Bus interface
- Temperature compensation of the charging voltage
- Digital display for output voltage, current and adjustment values
- Front side connectors
- Convection cooling

APPLICATIONS

Rectifier module for DC power supply facilities with or without battery in all areas of industry, power generation and power distribution.

PRODUCT DESCRIPTION

A combination of modern AC to DC switching power conversion technology and a flexible 19" compatible mechanics such as the PSS offers many advantages and is suitable for a wide range of applications.

A constant voltage and current control circuit performs the correction of output voltage deviations due to transient deviations of the input voltage or load within less than 1.5ms and permits constant current operation down to continuous short circuit.

A microcontroller unit equipped with two control keys and digital displays at the front panel provides permanent monitoring of input and output voltage, output current and temperature. This feature offers easy adjustment and programming of output parameters and monitoring thresholds.

To increase the power supply, it is possible to operate the PSS modules in parallel connection. For the control of all parameters and measurement

values it is advantageous to use the monitoring device UPC3, which communicates with the modules via CAN-Bus interface.



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See reverse side
for specifications

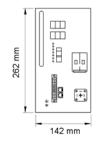
TECHNICAL DATA

Туре	PSS18/24-40-CAN	PSS18/48-30-CAN	PSS18/60-25-CAN	PSS18/110-13.3- CAN	PSS18/220-6.7- CAN	PSS18/220-6.7 Relay	
Article code	100-018-140.00	100-018-150.00	100-018-160.00	100-018-170.00	100-018-180.00	100-018-180.01	
Nominal input voltage	230VAC -20/+15%	←	←	←	←	←	
Nominal input current	5.2AAC	7.9AAC	7.9AAC	7.9AAC	7.9AAC	7.9AAC	
Input frequency range	47-63Hz						
Power factor	>0.95 at Pnom <25%; >0.97 at 50% >Pnom >25%; >0.99 at 100% >Pnom >50%						
Efficiency	≥90%	≥91%	≥91%	≥91%	≥91%	≥91%	
Internal input fusing	MCB B10A						
Nominal output voltage	24VDC	48VDC	60VDC	108VDC	216VDC	216VDC	
Nominal output current	40.0ADC	30.0ADC	25.0ADC	13.3ADC	6.7ADC	6.7ADC	
Charge characteristic line	IV line acc. to DIN 4	1772/DIN 41773					
Output voltage Vo1 (Trickle charging)	27.2VDC ±1% (23.4 to 28.8V adjustable)	54.5VDC ±1% (46.6 to 57.6V adjustable)	68.1VDC ±1% (58.5 to 72V adjustable)	122.6VDC ±1% (105 to 130V adjustable)	245.2VDC±1% (211 to 260V adjustable)	245.2VDC±1% (211 to 260V adjustable)	
Output voltage Vo2 (Boost charging)	28.8VDC ±1% (24 to 30V adjust- able)	57.6VDC ±1% (48 to 60V adjust- able)	72.0VDC ±1% (60 to 73V adjust- able)	129.6VDC ±1% (108 to 135V adjustable)	259.2VDC±1% (216 to 270V adjustable)	259.2VDC±1% (216 to 270V adjustable)	
Output voltage Vo3 (Battery test)	22.2VDC ±1% (20.4 to 24V adjustable)	44.4VDC ±1% (40.8 to 48V adjustable)	55.5VDC ±1% (51 to 60V adjust- able)	99.9VDC ±1% (91.8 to 108V adjustable)	200VDC ±1% (184 to 216V adjustable)	200VDC ±1% (184 to 216V adjustable)	
Voltage ripple	≤20mV _{pp}	≤20mV _{pp}	≤20mV _{pp}	≤100mV _{pp}	≤200mV _{pp}	≤200mV _{pp}	
Psophometric acc. to CCITT-A	≤1.2mVrms	≤1.8mVrms	≤1.8mVrms				
Dynamic accuracy of the charging voltage	<3% Vnom at load transients between 10% - 90% - 10% Inom, recovery time t ≤1.5ms						
Short circuit protection	Continuously short circuit proof, 1x Inom						
Parallel operation	Yes, <20 pieces, load sharing appr. 10% Inom						
Internal decoupling at the output	no	←	←	←	←	←	
LED signalling	Mains O.K. (green); Vo1 (green); Vo2 (green); Io (yellow); V< (green); V> (red); Alarm (red)						
Digital displays	Output voltage, output current						
Isolated signalling contacts	"General fault" and "Vo<"						
Monitoring	Output voltage high/low, output voltage, output current, short circuit						
External functions	Active current sharing, boost charge and battery test function, temperature compensation of the charging voltage, externsensor lead for the output voltage, remote ON/OFF, optocoupler signal "Vo O.K.", "Mains O.K." and "Constant current operation."						
Communications interface	CAN-Bus interface for communication with central monitoring unit						
Ambient temperature	Operation: -20°C to +45°C, storage: -40°C to +85°C						
Climatic conditions	IEC 721-3-3 class 3K3/3Z1/3B1/3C2/3S2/3M2						
Max. installation altitude	<1500m						
Audible noise	<40dB (A) in 1m distance						
Construction	1/3 x 19" module, 6U, for mounting in sub racks acc. to DIN 41 494, front connectors						
Dimensions (W/H/D)	142/262/287mm						
Weight	approx. 8.4kg						
Cooling	Natural convection	11 0					
Type of enclosure / Protection class	IP20 (mech.); 1 (electr.)						
Surfaces	Front panel: powder coating RAL 7035; neutral, black print, RAL 9005; constructive parts: anodized						
CE conformity	yes						
Compliance to safety standards	EN 60950-1, VDE 0100 part 410, VDE 0110, EN 50178, EN 60146						
Compliance to EMC standards	EN 55011, EN 55022 class "B", EN 61000- 4 part 2- 5						

OPTIONS

Article	Article Code		
Connector set for input/output <40A	880-100-STK.01		
Connector set for input/output >40A	880-100-STK.02		
Connector set for input/output , PSS 216V	880-100-STK.03		
19" subrack, 7 U	880-MEC-BGT7.00		

DIMENSIONS





DS_PSS18_2007_E_R03 - Subject to change without notice - Eltek Valere Industrial GmbH

Pakistan